

Remarks

Claims 41-62 are pending. Claims 41, 43, 45, 49, and 53 were amended to refer to SEQ ID NOS: 27-56. Claims 58-62 were amended to refer to SEQ ID NOS: 25-56. A substitute Sequence Listing is submitted concurrently herewith. SEQ ID NOS: 1-40 of the Sequence Listing submitted herewith are the same as those in the paper copy of the sequence listing filed on July 19, 2004. SEQ ID NO: 41 is the amino acid sequence of wild-type IFN-beta-1a, which sequence is provided in Figure 10 of the application as the sequence spanning positions Meth18-Asn183. As stated on page 9 in the brief description for Figure 10, the amino acid sequence of wild-type IFN-beta-1a corresponds to the amino acid sequence spanning positions Meth18-Asn183 of the amino acid sequence displayed in Figure 10. SEQ ID NOS: 42-56 are the amino acid sequences of interferon-beta-1a mutants A1, A2, AB1, AB2, AB3, B1, B2, C1, C2, CD1, CD2, D, DE1, DE2, and E. As described on page 16 in lines 19-29 and further on pages 28-30 of the application, the amino acid sequences of the aforementioned interferon-beta-1a mutants are the same as that of wild-type IFN-beta-1a except for certain alanine and/or serine mutations of the wild-type IFN-beta-1a amino acid sequence. The location of the alanine and/or serine mutations in the amino acid sequence for each interferon-beta-1a mutant is shown in Table 1 on page 32 of the application. Importantly, support for the claim amendments and the Sequence Listing submitted herewith can be found in the application. Therefore, no new matter has been added.

Fees

Applicants hereby authorize the Director to charge any required fee to our Deposit Account, **No. 06-1448**.

CONCLUSION

In view of the foregoing remarks, early and favorable consideration is respectfully solicited. The Examiner may address any questions raised by this submission to the undersigned at 617-832-1000.

Respectfully submitted,
Foley Hoag LLP

By: 

Isabelle M. Clauss, Ph.D.
Reg. No. 47,326
Attorney for Applicants

155 Seaport Boulevard
Boston, MA 02210
Telephone: (617) 832-1000
Telecopier: (617) 832-7000

Date: 8/16/06